

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/019592 A1

(51) International Patent Classification⁷: **H04L 29/12**

(21) International Application Number:
PCT/JP2003/010520

(22) International Filing Date: 20 August 2003 (20.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2002-240128 21 August 2002 (21.08.2002) JP

(71) Applicant (for all designated States except US): MAT-
SUSHITA ELECTRIC INDUSTRIAL CO., LTD
[JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka
571-8501 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KOMAKI, No-
rio [JP/JP]; 3-9-302, Nishijin 7-chome, Sawara-ku,
Fukuoka-shi., Fukuoka, 814-0002 (JP).

(74) Agents: OGURI, Shohei et al.; Eikoh Patent Office, 28th
Floor, ARK Mori Building, 12-32, Akasaka 1-chome, Mi-
nato-ku, Tokyo 107-6028 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

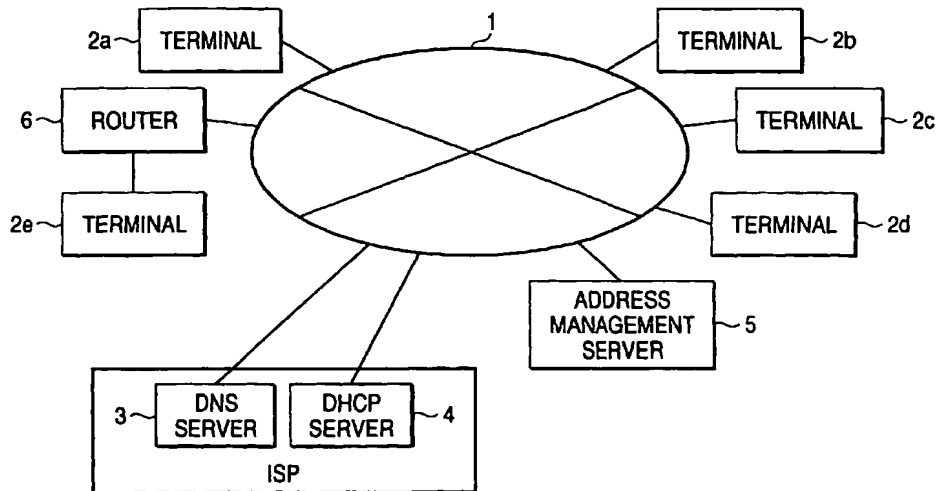
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: NETWORK TERMINAL DEVICE, ADDRESS MANAGEMENT SERVER, COMMUNICATION SYSTEM, AND
NETWORK COMMUNICATION METHOD USING MAC ADDRESSES TO DETERMINE THE IP TARGET ADDRESSES



(57) Abstract: The present invention is intended to offer network terminal devices and an address management server which can communicate with a remote terminal without manually managing the IP address of the remote terminal. A network communication method therefor is also offered. The MAC address of a local terminal, the MAC address of the remote terminal, and the IP address of the address management server are stored in terminal devices. These terminal devices are connected with a network, and an IP address is gained. An inquiry of an IP address corresponding to the MAC address of the remote terminal is made to the address management server. When a response of the IP address of the remote terminal is made from the address management server, an access is made to this IP address.